

## REMARKS

Reconsideration and allowance of the subject application are respectfully requested.

Claims 3-10 and 12-20 are pending in the application.

Basis for new claim 20 can be found in the present application. No new matter has been added.

The rejection of claims 7-19 under 35 U.S.C. §112, second paragraph is respectfully traversed in part and in part obviated by the amendment to the claims as set forth above. No new matter has been added by these amendments. The rejection of claim 17 regarding the language "circulating rotatable structure" is respectfully traversed. Applicant submits that this language is not present in base claim 10 and thus antecedent basis "said" is improper. The rejection of claim 19 is respectfully traversed since the language "said oppositely curved element of matter" is not present in claim 19. Accordingly, withdrawal of the Section 112 rejection is respectfully requested.

The rejection of claims 1-19 under 35 U.S.C. §101 and the objection to the specification under 35 U.S.C. §112, first paragraph, are respectfully traversed. Applicant submits that the claimed invention fully complies with Section 101 for the following reasons. The Examiner argues that "[t]he method and apparatus as claimed are well known in the art for directing electron beams in applications such as electron beam lithography system and it is known that No antigravitational effects occur."

The prior art cited by the Examiner does not scatter electrons, especially not off of helium atoms. Thus, no antigravitational effects would occur in the prior art.

The Examiner argues that "[t]he electron gravitation mass has been measured at  $m = 9.11 \times 10^{-31}$  kg and is known to be three dimensional spherical shell, Not two-dimensional plane wave. Therefore, the gravitational mass and the space-time curvature of the electrons are Not affected by the electric, magnetic and/or electromagnetic fields disclosed by applicant."

Applicant's submit that the Examiner is simply incorrect. Electron scattering experiments show that the free electron is a plane wave as shown in Bonham, R. A., Fink, M., High Energy Electron Scattering, ACS Monograph, Van Nostrand Reinhold Company, New York, (1974). Also see Chp. 8 of R. Mills, *The Grand Unified Theory of Classical Quantum Mechanics*, September 2001 Edition, BlackLight Power, Inc., Cranbury, New Jersey, Distributed by Amazon.com; January 2004 Edition, posted at <http://www.blacklightpower.com/bookdownload.shtml>.

For these reasons, the Section 101 and 112 rejections should be withdrawn.

The rejections of claims 1-19 under 35 U.S.C. § 102(b) over WO 90/16073 (Mills) and over WO 95/32021 are obviated by the amendments set forth above and for the following reasons.

Applicant's previous applications disclose an extended electron. The two dimensional electron is scattered from helium atoms in a manner to form a hyperbolic electron that is a two dimensional mass-density function comprising a surface of negative curvature. It was now found for the first time that the operative condition to produce an electron with negative gravitational mass based on the law that the speed of light is a constant maximum in all frames is that the scattering event must give rise to an electron having a two-dimensional spherical mass-density function and a velocity function over its two-dimensional surface that varies according to a hyperbolic function. The details of the application of this condition and a graphical representation of the hyperbolic velocity function corresponding to a so-called hyperbolic electron from are attached. The reference is R. Mills, *The Grand Unified Theory of Classical Quantum Mechanics*, January (2004) Edition, chapter 26, posted at [www.blacklightpower.com](http://www.blacklightpower.com).

For these reasons, the Section 102(b) rejections should be withdrawn.

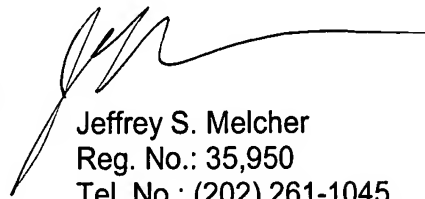
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In view of all of the rejections of record having been addressed, it is believed that the present application is in condition for allowance and Notice to that effect is respectfully requested.

Respectfully submitted,

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